

Appl. No. 10/667,958
Atty. Docket No. CM2632MC
Amtd. dated 03/30/2005
Reply to Office Action of 12/14/2004
Customer No. 27752

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A composition suitable for treating hair comprising:
 - a) an oxidizing agent consisting of one or more water-soluble inorganic peroxygen oxidizing agents; and
 - b) a chelant (L) having a $\frac{\log K_{CuL}}{\log K_{CaL}}$ ratio calculated at pH 10 of at least about 3.20;
wherein $\log K_{CuL}$ is the common logarithm of the Conditional Stability Constant of said chelant with Cu^{2+} and $\log K_{CaL}$ is the common logarithm of the Conditional Stability Constant of said chelant with Ca^{2+} ; and
wherein said composition has a pH from about 9.5 to about 11.
2. (Previously Presented) A composition according to claim 1, wherein said chelant has a Hydrogen Peroxide Decomposition Ratio (% Loss) of less than about 3.5% as measured by the Hydrogen Peroxide Decomposition Ratio Measurement Protocol.
3. (Original) A composition according to claim 1, wherein said chelant forms a hexadendate complex with Cu^{2+} .
4. (Canceled)
5. (Original) A composition according to claim 1, wherein said composition is in the form of an oil-in-water emulsion.
6. (Original) A composition according to claim 1, wherein said composition is in the form of a thickened aqueous solution.

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7. (Original) A composition according to claim 1, wherein said oxidizing agent is present at a level of from about 0.1% to about 40% by weight of said composition and is selected from water-soluble oxidizing agents and mixtures thereof.
8. (Original) A composition according to claim 7, wherein said oxidizing agent comprises hydrogen peroxide.
9. (Original) A composition according to claim 1, wherein said chelant is present at a level of from about 0.01% to about 10% by weight of said composition.
10. (Original) A composition according to claim 1, further comprising at least one oxidative hair dye precursor.
11. (Currently Amended) A method of treating hair, said method comprising the steps of:
 - i) contacting hair with a first composition comprising a chelant (L) having a $\frac{\log K_{CuL}}{\log K_{CaL}}$ ratio calculated at pH 10 of at least about 3.20; and
 - ii) contacting hair with a second composition comprising an oxidizing agent consisting of one or more water-soluble inorganic peroxygen oxidizing agents immediately after step i);
wherein $\log K_{CuL}$ is the common logarithm of the Conditional Stability Constant of said chelant with Cu^{2+} and $\log K_{CaL}$ is the common logarithm of the Conditional Stability Constant of said chelant with Ca^{2+} ; and
wherein said second composition has a pH from about 9.5 to about 11.
12. (Currently Amended) A method of treating hair, said method comprising the steps of:
 - i) contacting hair with a first composition comprising an oxidizing agent consisting of one or more water-soluble inorganic peroxygen oxidizing agents;

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ii) contacting hair with a second composition comprising a chelant having

a $\frac{\log K_{CuL}}{\log K_{CaL}}$ ratio calculated at pH 10 of at least about 3.20; and

iii) contacting hair with a third composition comprising a second oxidizing agent consisting of one or more water-soluble inorganic peroxygen oxidizing agents;

wherein steps i) and iii) are separated by at least 1 day and step ii) does not take place immediately before step iii);

wherein $\log K_{CuL}$ is the common logarithm of the Conditional Stability Constant of said chelant with Cu^{2+} and $\log K_{CaL}$ is the common logarithm of the Conditional Stability Constant of said chelant with Ca^{2+} ; and

wher cin said first and third compositions have a pH from about 9.5 to about 11.

13. (Currently Amended) A kit for dyeing hair comprising a first and a second compositions packaged in different containers, wherein said first composition comprises an oxidizing agent consisting of one or more water-soluble inorganic peroxygen oxidizing agents and said second composition comprises an oxidative dye precursor, wherein the resulting mixture of said first and second compositions is a composition according to claim 10.

14. (Original) A method of dyeing human hair, said method comprising the steps of:

- i) mixing the first and second composition of a kit according to claim 13;
- ii) contacting hair with the mixture obtained on step i);
- iii) massaging said mixture into hair;
- iv) retaining said mixture on the hair for an amount of time sufficient for mixture to dye the hair;
- iv) rinsing off said composition with water.